



THE PORT AUTHORITY
OF NEW YORK & NJ



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I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT
COPY OF ONE OF THE CONTRACT DOCUMENTS CON-
STITUTING A PART OF CONTRACT NO. **WTC-94-071**
IN THE FORM IN WHICH SAID DOCUMENTS EXISTED AT
THE TIME THE SAID CONTRACT WAS EXECUTED BY
THE PARTIES.

DATE **11/17/97** *David Eliot*
DATE **4/10/98** *PL*
BY: *David Eliot*
BY: *PL*
ENGINEER OF DESIGN

No.	Date	Revision	Approved
1	11/17/97	ISSUED FOR BID	
Engineering Department Design Division			
The World Trade Center			

Title
**STANDBY POWER
5 WORLD TRADE CENTER**
PLUMBING
**SYMBOL LIST
AND GENERAL NOTES**

The drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without its written consent.

VP M.A.R. VP
Designed by Drawn by Check by
Date 11/17/97 Scale NONE
Contract Number Drawing Number
WTC-94-071 PO-01

PLUMBING SYMBOL LIST

	EXISTING PIPING TO REMAIN
	EXISTING PIPING/FIXTURE TO BE REMOVED
	NEW PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	PLUGGED OUTLET
	LEADER PIPING
	DRAIN PIPING
	SANITARY PIPING
	WASTE PIPING
	PIPING IN CEILING BELOW
	HAND VALVE
	CHECK VALVE
	PLUMBING RISER No. (TYPICAL)
	HOSE BIBB
	CENTER LINE ELEVATION
	CONNECT TO EXISTING
	FLOOR DRAIN
	STOP VALVE
	ABOVE FINISH FLOOR
	BOTTOM OF PIPE
	CLEAN OUT
	COLD WATER
	CEILING
	EYEWASH
	EXISTING
	FLOOR DRAIN
	HOSE BIBB
	HOT WATER
	HOT WATER RETURN
	LEADER
	MECHANICAL EQUIPMENT ROOM
	NOT TO SCALE
	SOIL
	SOIL PLUGGED OUTLET
	VENT
	WASTE

SPRINKLER SYMBOL LIST

	UPRIGHT SPRINKLER HEAD
	FLOOR CONTROL ASSEMBLY

1. GENERAL NOTES

- DRAININGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
- VERIFY ALL COVERING DIMENSIONS, PIPE SIZES AND LOCATION IN THE FIELD.
- COORDINATE ALL WORK TO AVOID INTERFERENCE WITH EXISTING FACILITIES AND OTHER TRADES.
- REQUESTS FOR SHUT DOWNS MUST BE SUBMITTED TO THE ENGINEER AT LEAST (7) SEVEN WORKING DAYS PRIOR TO THE REQUESTED SHUTDOWN AND SHALL BE SUBJECT TO THE FINAL APPROVAL OF THE ENGINEER.
- ALL UNUSED PIPING, HANGERS, SUPPORTS SHALL BE COMPLETELY REMOVED ALL THE WAY BACK TO THE RISER, OR BACK TO THE NEAREST ACTIVE BRANCH MAIN AND CAP, SEaled WATER TIGHT. ALL THE OPENINGS RESULTING SHALL BE PROPERLY PATCHED, SEALED, AND FIRE STOPPED TO MAINTAIN THE ORIGINAL INTEGRITY OF THE PARTITION'S FIRE RATING.
- INSTALL WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING PIPING DISTURBED IN MAKING SUCH CONNECTIONS TO PERFECT CONDITIONS.
- CLEANING: REMOVE FROM PREMISES ALL DEBRIS RESULTING FROM WORK OF THIS SECTION. LEAVE WORK OF THIS SECTION CLEAN AND IN PERFECT CONDITION.
- DRIP PIPING SHALL BE GALVANIZED STEEL AS PER SPECIFICATION SECTION 15410, PARA. 2.01.
- PROVIDE GASK SEALS FOR ALL PIPE PENETRATIONS THROUGH MAIN ROOF SLAB.
- PROVIDE FLASHING FOR TWO VENTS PENETRATING BULKHEAD ROOF.
- PROVIDE THE FOLLOWING EQUIPMENT AS MADE BY B/W CONTROLS:
Z - MOISTURE SENSORS #6013-MSA-1
I - NEMA 1 CONTROL PANEL #5041-1200-L1-R-N1

ROOF DRAIN SCHEDULE	
LOCATION	DESCRIPTION
BULKHEAD ROOF DRAINS #1,2 & 3	J.P. SMITH FIG. 1010, 4" THREADED OUTLET, SUMP RECEIVER, UNDERDECK CLAMP, CAST IRON DOME STRAINER, FLASHING CLAMP
BULKHEAD DRAINS #4,5,6,7,8,9 & 10	J.P. SMITH FIG. 102010A, 3" THREADED OUTLET, 4" WIDE FLANGE FOR SEAMLESS FLOORING, CLAMP, CAST IRON DOME STRAINER
MAIN ROOF DRAINS #11,12,13 & 16	J.P. SMITH FIG. 1010, 4" THREADED OUTLET, (SIZE AS SHOWN), UNDERDECK CLAMP, FLASHING CLAMP, CAST IRON DOME STRAINER
ROOF DRAINS WITHIN BULKHEAD AREA #14 & 15	J.P. SMITH FIG. 102010A, 4" THREADED OUTLET, 4" WIDE FLANGE FOR SEAMLESS FLOORING, SQUARE TOP

